## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for fabricating a resist pattern, comprising the steps of:

forming a pre-resist pattern through exposure treatment and development treatment, and

ash-treating the pre-resist pattern to form the a narrowed resist pattern-narrowed.

- 2. (Original) A fabricating method as defined in claim 1, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 3. (Currently Amended) A fabricating method as defined in claim 1, wherein the pre-resist pattern and the resist pattern is are composed of a photoresist layer as a top layer and a polymethylglutarimide layer as a bottom layer.
- 4. (Currently Amended) A fabricating method as defined in claim 3, comprising the steps of:

forming the polymethylglutarimide layer on a given base material, forming the photoresist layer on the polymethylglutarimide layer,

exposing and developing the photoresist layer via a given mask,

partially removing the remaining polymethylglutarinide polymethylglutarimide layer with an alkaline water solution to form the pre-resist pattern, and

ash-treating the pre-resist pattern to form the narrowed resist pattern.

5. (Currently Amended) A fabricating method as defined in claim 4, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed

trapezoid longitudinal cross-sections section, and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.

- 6. (Currently Amended) A fabricating method as defined in claim 1, wherein the pre-resist pattern and the resist pattern is are made of a picture reversion type-photoresist which is made by adding a negative working agent to a positive type-photoresist including a mixture of alkaline soluble phenol resin and-naphtoquinonediazide.
- 7. (Currently Amended) A fabricating method as defined in claim 6, comprising the steps of:

coating the picture reversion type-photoresist on a given base material,
exposing the picture reversion type-photoresist via a given mask,
heating the picture reversion type-photoresist after the exposure treatment,
developing the picture reversion type-photoresist after the heating treatment to
form the pre-resist pattern, and

ash-treating the pre-resist pattern to form the narrowed resist pattern.

- 8. (Currently Amended) A fabricating method as defined in claim 7, further comprising thea step of exposing the picture reversion type-photoresist uniformly after the heating treatment and before the developing treatment.
- 9. (Currently Amended) A fabricating method as defined in claim 7, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross sections section, and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 10. (Currently Amended) A fabricating method as defined in claim 1, wherein the pre-resist pattern and the resist pattern is are made of a novolac type-positive photoresist containing an additive phenol dissolution accelerator.

11. (Currently Amended) A fabricating method as defined in claim 10, comprising the steps of:

coating the novolac type-positive photoresist containing the additive phenol dissolution accelerator on a given base material,

exposing via a given mask and developing the novolac type-positive photoresist, to form the pre-resist pattern, and

ash-treating the pre-resist pattern to form the narrowed resist pattern.

- 12. (Currently Amended) A fabricating method as defined in claim 11, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-sections, and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 13. (Previously Amended) A method for patterning a thin film using a resist pattern as defined in claim 1.

14. (Currently Amended) A method for patterning a thin film, comprising the steps:

forming a thin film to be milled on a given base material,

forming a polymethylglutarimide layer on the thin film to be milled,

forming a photoresist layer on the polymethylglutarimide layer,

exposing and developing the photoresist layer via a given mask,

partially removing the remaining polymethylglutarimide polymethylglutarimide

layer with an alkaline water solution to form a pre-resist pattern constructed of the photoresist layer as a top layer and the polymethylglutarinide polymethylglutarinide layer as a bottom layer,

ash-treating the pre-resist pattern to form a narrowed resist pattern, and

milling the thin film to be milled via the <u>narrowed</u> resist pattern to obtain a patterned thin film.

- 15. (Original) A patterning method as defined in claim 14, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 16. (Currently Amended) A patterning method as defined in claim 14, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross sections section, and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 17. (Currently Amended) A method for patterning a thin film, comprising the steps of:

forming a thin film to be milled on a given base material,

coating on the thin film to be milled a picture reversion type-photoresist which is made by adding a negative working agent to a positive type-photoresist including a mixture of alkaline soluble phenol resin and naphtoquinonediazidonapthoquinonediazide,

exposing the picture reversion type-photoresist via a given mask,

heating the picture reversion type-photoresist after the exposure treatment,

developing the picture reversion type-photoresist after the heating treatment to

form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern, and milling the thin film to be milled via the <u>narrowed</u> resist pattern to obtain a patterned thin film.

18. (Currently Amended) A patterning method as defined in claim 17, further comprising the step of exposing the picture reversion type-photoresist uniformly after the heating treatment and before the developing treatment.

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- 19. (Previously Amended) A patterning method as defined in claim 17, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 20. (Currently Amended) A patterning method as defined in claim 17, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-sections, and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 21. (Currently Amended) A method for patterning a thin film, comprising the steps of:

forming a thin film to be milled on a given base material,

coating a novolac type-positive photoresist containing an additive phenol

dissolution accelerator on the thin film to be milled,

exposing via a given mask and developing the novolac type positive photoresist, to form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern, and milling the thin film to be milled via the <u>narrowed</u> resist pattern to obtain a patterned thin film.

- 22. (Original) A patterning method as defined in claim 21, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 23. (Currently Amended) A patterning method as defined in claim 21, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-sections and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.

24. (Currently Amended) A method for patterning a thin film, comprising the steps of:

forming a polymethylglutarimide layer on a given base material, forming a photoresist layer on the polymethylglutarimide layer, exposing and developing the photoresist layer via a given mask,

partially removing the remaining polymethylglutarinide polymethylglutarimide layer with an alkaline water solution to form a pre-resist pattern constructed of the photoresist layer as a top layer and the polymethylglutarinide polymethylglutarimide layer as a bottom layer,

ash-treating the pre-resist pattern to <u>form</u> a narrowed resist pattern,

forming a thin film to be patterned on the base material so as to cover the

narrowed resist pattern, and

lifting-off the resist pattern to obtain a patterned thin film.

- 25. (Original) A patterning method as defined in claim 24, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 26. (Currently Amended) A patterning method as defined in claim 24, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-sections section, and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 27. (Currently Amended) A method for patterning a thin film, comprising the steps of:

coating on a given base material a picture reversion type-photoresist which is made by adding a negative working agent to a positive type-photoresist including a mixture of alkaline soluble phenol resin and naphtoquinonediazide napthoquinonediazide,

exposing the picture reversion type-photoresist via a given mask,

heating the picture reversion type-photoresist after the exposure treatment,

developing the picture reversion type-photoresist after the heating treatment to

form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern,
forming a thin film to be patterned on the base material so as to cover the
<a href="marrowed">narrowed</a> resist pattern, and

lifting-off the resist pattern to obtain a patterned thin film.

- 28. (Currently Amended) A patterning method as defined in claim 27, further comprising thea step of exposing the picture reversion type-photoresist uniformly after the heating treatment and before the developing treatment.
- 29. (Previously Amended) A patterning method as defined in claim 27, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 30. (Currently Amended) A patterning method as defined in claim 27, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-sections and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 31. (Currently Amended) A method for patterning a thin film, comprising the steps of:

coating a novolac type-positive photoresist containing an additive phenol dissolution accelerator on a givegiven base material,

exposing via a given mask and developing the novolac type-positive photoresist, to form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern,

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forming a thin film to be patterned on the base material so as to cover the <a href="marrowed">narrowed</a> resist pattern, and

lifting-off the resist pattern to obtain a patterned thin film.

- 32. (Original) A patterning method as defined in claim 31, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 33. (Currently Amended) A patterning method as defined in claim 31, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-sections, and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 34. (Currently Amended) A method for patterning a thin film, comprising the steps of:

forming a thin film to be milled on a given base material,
forming a polymethylglutarimide layer on the thin film to be milled,
forming a photoresist layer on the polymethylglutarimide layer,
exposing and developing the photoresist layer via a given mask,
partially removing the remaining polymethylglutarimidepolymethylglutarimide

layer with an alkaline water solution to form a pre-resist pattern constructed of the photoresist layer as a top layer and the polymethylglutarinide polymethylglutarinide layer as a bottom layer,

ash-treating the pre-resist pattern to <u>form</u> a narrowed resist pattern,

milling the thin film to be milled via the <u>narrowed</u> resist pattern to form a prepatterned thin film,

forming a thin film to be patterned on the base material so as to cover the <a href="mainto:narrowed">narrowed</a> resist pattern, and

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lifting-off the <u>narrowed</u> resist pattern to obtain a patterned thin film including the pre-patterned thin film.

- 35. (Original) A patterning method as defined in claim 34, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 36. (Currently Amended) A patterning method as defined in claim 34, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-sections and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 37. (Currently Amended) A method for patterning a thin film, comprising the steps of:

forming a thin film to be milled on a given base material,

coating on the thin film to be milled a picture reversion type-photoresist which is made by adding a negative working agent to a positive type-photoresist including a mixture of alkaline soluble phenol resin and naphtoquinonediazidonapthoquinonediazide,

exposing the picture reversion type-photoresist via a given mask,
heating the picture reversion type-photoresist after the exposure treatment,

developing the picture reversion type-photoresist after the heating treatment to form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern,
milling the thin film to be milled via the <u>narrowed</u> resist pattern to obtain a
pre-patterned thin film,

forming a thin film to be patterned on the base material so as to cover the <a href="marrowed">narrowed</a> resist pattern, and

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lifting-off the <u>narrowed</u> resist pattern to obtain a patterned thin film including the pre-patterned thin film.

- 38. (Currently Amended) A patterning method as defined in claim 37, further comprising thea step of exposing the picture reversion type-photoresist uniformly after the heating treatment and before the developing treatment.
- 39. (Previously Amended) A patterning method as defined in claim 37, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 40. (Currently Amended) A patterning method as defined in claim 37, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-section, and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 41. (Currently Amended) A method for patterning a thin film, comprising the steps of:

forming a thin film to be milled on a given base material,

coating a novolac type positive photoresist containing an additive phenol

dissolution accelerator on the thin film to be milled,

exposing via a given mask and developing the novolac type-positive photoresist, to form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern,
milling the thin film to be milled via the <u>narrowed</u> resist pattern to obtain a
pre-patterned thin film,

forming a thin film to be patterned on the base material so as to cover the <a href="marrowed">narrowed</a> resist pattern, and

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lifting-off the <u>narrowed</u> resist pattern to obtain a patterned thin film including the pre-patterned thin film.

- 42. (Original) A patterning method as defined in claim 41, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 43. (Currently Amended) A patterning method as defined in claim 41, wherein the pre-resist pattern and the resist pattern have their respective has a T-shaped or reversed trapezoid longitudinal cross-sections and the narrowed resist pattern has a corresponding T-shaped or reversed trapezoid cross-section.
- 44. (Previously Amended) A method for manufacturing a micro device, using a patterning method for a thin film as defined in claim 13.
- 45. (Original) A manufacturing method as defined in claim 44, wherein the micro device is a thin film magnetic head.
- 46. (Currently Amended) A manufacturing method as defined in claim 45, wherein thea magnetoresistive effective type-thin film element of the thin film magnetic head is manufactured by a patterning method comprising the steps: forming a thin film to be milled on a given base material, forming a polymethylglutarimide layer on the thin film to be milled, forming a photoresist layer on the polymethylglutarimide layer, exposing and developing the photoresist layer via a given mask, partially removing the remaining polymethylglutarimide layer with an alkaline water solution to form a pre-resist pattern constructed of the photoresist layer as a top layer and the polymethylglutarimide polymethylglutarimide layer as a bottom layer, ash-treating the pre-resist pattern to form a narrowed resist pattern, and milling the thin film to be milled via the narrowed resist pattern to obtain a patterned thin film.